



14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 15, 2005

Matt Schultz
MCS Environmental, Inc.
6505 216th Street SW, Suite 100
Mount Lake Terrace, WA 98043

Re: Analytical Data for Project 360090.004
Laboratory Reference No. 0512-106

Dear Matt:

Enclosed are the analytical results and associated quality control data for samples submitted on December 15, 2005.

The standard policy of OnSite Environmental Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: December 15, 2005
Samples Submitted: December 15, 2005
Laboratory Reference: 0512-106
Project: 360090.004

Case Narrative

Samples were collected on December 15, 2005 and received by the laboratory on December 15, 2005. They were maintained at the laboratory at a temperature of 2°C to 6°C except as noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Date of Report: December 15, 2005
 Samples Submitted: December 15, 2005
 Laboratory Reference: 0512-106
 Project: 360090.004

NWTPH-Dx

Date Extracted: 12-15-05
 Date Analyzed: 12-15-05

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	815 SIDE N	815 SIDE S	815 SIDE W
Lab ID:	12-106-01	12-106-02	12-106-03
Diesel Range:	ND	42	98
PQL:	26	27	27
Identification:	---	Diesel Fuel#2	Diesel Fuel#2
Lube Oil Range:	ND	60	81
PQL:	53	53	54
Identification:	---	Lube Oil	Lube Oil
Surrogate Recovery			
o-Terphenyl:	99%	92%	108%
Flags:	Y	Y	Y

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NWTPH-Dx

Date Extracted: 12-15-05
 Date Analyzed: 12-15-05

Matrix: Soil
 Units: mg/kg (ppm)

Client ID:	815 SIDE E	W-1 8K SIDE N	W-1 8K SIDE S
Lab ID:	12-106-04	12-106-05	12-106-06
Diesel Range:	ND	ND	ND
PQL:	27	25	27
Identification:	---	---	---
Lube Oil Range:	54	58	ND
PQL:	54	51	53
Identification:	Lube Oil	Lube Oil	---
Surrogate Recovery			
o-Terphenyl:	109%	101%	90%
Flags:	Y	Y	Y

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NWTPH-Dx

Date Extracted: 12-15-05
Date Analyzed: 12-15-05

Matrix: Soil
Units: mg/kg (ppm)

Client ID:	W-1 8K SIDE W	W-1 8K SIDE E
Lab ID:	12-106-07	12-106-08

Diesel Range:	ND	ND
PQL:	27	27
Identification:	---	---

Lube Oil Range:	ND	ND
PQL:	53	53
Identification:	---	---

Surrogate Recovery		
o-Terphenyl:	99%	95%

Flags:	Y	Y
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Date of Report: December 15, 2005
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NWTPH-Dx
METHOD BLANK QUALITY CONTROL

Date Extracted: 12-15-05
Date Analyzed: 12-15-05

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: MB1215S1

Diesel Range: **ND**
PQL: 25
Identification: ---

Lube Oil Range: **ND**
PQL: 50
Identification: ---

Surrogate Recovery
o-Terphenyl: 109%

Flags: Y

Date of Report: December 15, 2005
Samples Submitted: December 15, 2005
Laboratory Reference: 0512-106
Project: 360090.004

NWTPH-Dx
DUPLICATE QUALITY CONTROL

Date Extracted: 12-15-05
Date Analyzed: 12-15-05

Matrix: Soil
Units: mg/kg (ppm)

Lab ID: 12-106-01 12-106-01 DUP

Diesel Range: **ND** **ND**
PQL: 25 25

RPD: N/A

Surrogate Recovery
o-Terphenyl: 99% 101%

Flags: Y Y

Date of Report: December 15, 2005
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% MOISTURE

Date Analyzed: 12-15-05

Client ID	Lab ID	% Moisture
815 SIDE N	12-106-01	5
815 SIDE S	12-106-02	6
815 SIDE W	12-106-03	7
815 SIDE E	12-106-04	8
W-1 8K SIDE N	12-106-05	1
W-1 8K SIDE S	12-106-06	6
W-1 8K SIDE W	12-106-07	6
W-1 8K SIDE E	12-106-08	6



Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

G - Insufficient sample quantity for duplicate analysis.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range (toluene-napthalene) are present in the sample.

O - Hydrocarbons indicative of diesel fuel are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a silica gel cleanup procedure.

Y - Sample extract treated with an acid/silica gel cleanup procedure.

Z -

ND - Not Detected at PQL

PQL - Practical Quantitation Limit

RPD - Relative Percent Difference

Chain of Custody

Company: MCS ENVIRONMENT

Project Number: 360090.004

Project Name: GSA AUBURN

Project Manager: MAT SCHULZ

Sampled by: (Same)

Turnaround Request (in working days)

(Check One)

☐ Same Day ☒ 1 Day

☐ 2 Day ☐ 3 Day

☐ Standard (7 working days)

☐ _____ (other)

Laboratory Number: **12-106**

Requested Analysis

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	# of Cont.	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Dx	Volatiles by 8260B	Halogenated Volatiles by 8260B	Semivolatiles by 8270C	PAHs by 8270C / SIM	PCBs by 8082	Pesticides by 8081A	Herbicides by 8151A	Total PCRA Metals (8)	TCLP Metals	HEM by 1664	VPH	EPH	% Moisture
1	815 SIDE N	12/15/05	1320	Soil	1			✓													✓
2	815 SIDE S	"	1320					✓													✓
3	815 SIDE W	"	1310					✓													✓
4	815 SIDE E	"	1310					✓													✓
5	W-1 8k SIDE N	12/15	1320					✓													✓
6	W-1 8k SIDE S		↓					✓													✓
7	W-1 8k SIDE W							✓													✓
8	W-1 8k SIDE E							✓													✓

Signature	Company	Date	Time	Comments/Special Instructions:
Relinquished by <u>[Signature]</u>	<u>MCS ENVIRONMENT</u>	<u>12/15/05</u>	<u>2:23 PM</u>	<u>DIESEL #2 +</u> <u>NO. 5 fuel oil.</u> <u>MATTS #</u> <u>Cell: 206 200-6731</u>
Received by <u>[Signature]</u>	<u>CSE</u>	<u>12/15/05</u>	<u>2:23 PM</u>	
Relinquished by				
Received by				
Relinquished by				
Received by				
Reviewed by/Date	Reviewed by/Date	Chromatograms with final report <input type="checkbox"/>		